

Product datasheet for **RG220113**

NRF1 (NM_005011) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRF1 (NM_005011) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NRF1
Synonyms:	ALPHA-PAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG220113 representing NM_005011
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGAACACGGAGTGACCCAAACCGAACATATGGCTACCATAGAAGCACATGCAGTGGCCAGCAAG
 TGCAGCAGGTCCATGTGGCTACTTACACCGAGCATAGTATGCTGAGTGCATGAAGACTCGCCTTCTTC
 TCCCGAGGACACCTCTTACGATGACTCAGATATACTCAACTCCACAGCAGCTGATGAGGTGACAGCTCAT
 CTGGCAGCTGCAGGTCTGTGGGAATGGCCGCTGCTGCTGTGGCAACAGGAAAGAAACGGAAACGGC
 CTCATGTATTTGAGTCTAATCCATCTATCCGGAAGAGGCAACAAACACGTTTGCTCGGAAACTTCGAGC
 CACGTTAGATGAATATACTACTCGTGTGGGACAGCAAGCTATTGCTCTGTATCTACCCTCCAAACCT
 AACCTGTCTTTAAAGTGTGGTGCAGCACCTTTGGAGAATGTGGTGCCTAAGTACAAGAGCATGATCC
 TGAAGACCTGGAGTCTGCTCTGGCAGAACACGCCCTGCGCCACAGGAGTTAACTCAGAACTGCCGCC
 TCTCACCATCGACGGAATCCAGTCTCTGTGGACAAAATGACCCAGGCCAGCTTCGGGCATTTATCCCA
 GAGATGCTCAAGTACTCTACAGTCTGGGAAAACCAAGGCTGGGGGAAAGAAAGCTGCAAGCCCATCTGGT
 GGCTGAAGATATCCCCTGGGCAATGTCCGGAGTGATGTCCGCACAGAAGAGCAAAAGCAGAGGGTTTC
 ATGGACCCAGGCACTACGGACCATAGTTAAAACTGTTATAAACAGCATGGGCGGGAAGACCTTTTGTAT
 GCCTTTGAAGTCAGCAAACGCAACACAGGCCACAGCCACACATAGTATAGCTCATCTTGTACCATCAC
 AGACTGTAGTCCAGACTTTTAGTAAACCTGATGGCACTGTCTCACTTATCCAGTTGGTACGGGGCAAC
 AGTAGCCACATTTGGCTGATGCTTCAAGATTGCCAACACGGTACCCTTGCCCAAGTGAATTATCTGCC
 GTGGCTGATGGAGAGTGAACAAAATTGGGCCACGTTACAGGGAGGTGAGATGACCATCCAGACGACGC
 AAGCATCAGAGGCCACCCAGGCGGTGGCATCGTTGGCAGAGGCCGAGTGCAGCTTCTCAGGAGATGCA
 GCAGGGAGCTACAGTCACTATGGCGCTTAACAGCGAAGCTGCCGCCCATGCTGTCGCCACCTGGCTGAG
 GCCACCTTACAAGTGGGGACAGATCGTCTTGTCTGGGAAAACCGCAGCAGCCGTCGGAGCACTTACTG
 GAGTCCAAGATGCTAATGGCCTCTTATGGCAGATCGTGCAGGTCGCAAGTGGATCCTGACTGACAAAGC
 CACAGGCCCTGGTCCAGATCCCTGTGAGCATGTACCAGACTGTGGTACCAGCCTCGCCAGGGCAACGGA
 CCAGTGCAGGTGGCCATGGCCCCTGTGACCACCAGGATATCAGACAGCGCAGTACCATGGACGGCAAG
 CTGTGGAGGTGGTACATTGGAACAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220113 representing NM_005011
 Red=Cloning site Green=Tags(s)

MEEHGVQTQTEHMATIEAHAVAQQVQVHVATYTEHSMLSAEDSPSSPEDTSYDDSDILNSTAADEVTAH
 LAAAGPVGMAAAAATGKKRKRPHVFESNPSIRKRQQRLLRKLRLATLDEYTRVGGQAIIVLCISPSKP
 NPVFKVFGAAPLENVVRKYKSMILEDLESALAEHAPAQEVNSELPLTIDGIPVSVDKMTQAQLRAFIP
 EMLKYSTGRGKPGWGKESCKPIWWPEDIPWANVRSVDRTEEQKQVSWTQALRTIVKNCYKQHGREDLLY
 AFEDQQTQTQATATHSIAHLVPSQTVVQTFSNPDGTVSLIQVGTGATVATLADASELPPTVTVAQVNYSA
 VADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEAAVAASQEMQQGATVTMALNSEAAAHAVALAE
 ATLQGGGQIVLSGETAAAVGALTGVDANGLFMADRAGRKWLTDKATGLVQIPVSMYQTVVTSLAQNGN
 PVQVAMAPVTTTRISDSAVTMDGQAVEVVTLQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005011

ORF Size: 1566 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_005011.2](#), [NP_005002.2](#)

RefSeq Size: 2514 bp

RefSeq ORF: 1512 bp

Locus ID: 4899

UniProt ID: [Q16656](#)

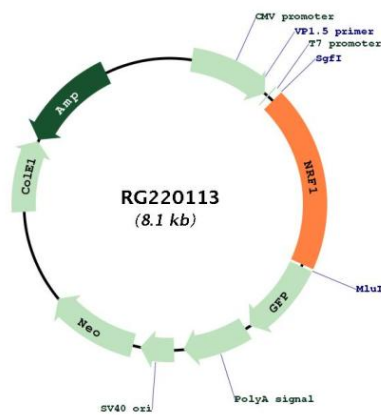
Cytogenetics: 7q32.2

Protein Families: Transcription Factors

Protein Pathways: Huntington's disease

Gene Summary: This gene encodes a protein that homodimerizes and functions as a transcription factor which activates the expression of some key metabolic genes regulating cellular growth and nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication. The protein has also been associated with the regulation of neurite outgrowth. Alternative splicing results in multiple transcript variants. Confusion has occurred in bibliographic databases due to the shared symbol of NRF1 for this gene and for "nuclear factor (erythroid-derived 2)-like 1" which has an official symbol of NFE2L1. [provided by RefSeq, May 2014]

Product images:



Circular map for RG220113